



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 148453

TO: Patricia Duffy
Location: REM/3B05/3C18
Art Unit: 1645
Thursday, March 31, 2005

Case Serial Number: 10/033243

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518

barbara.obryen@uspto.gov

Search Notes

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STIC-Biotech/ChemLib

148453

From: Duffy, Patricia
Sent: Tuesday, March 22, 2005 10:21 AM
To: STIC-Biotech/ChemLib
Subject: Sequence search 10/033,243

In re: 10/033,243

Please search SEQ ID NO:132.

Please include both a commercial and interference database hit.

Note: this is a short NA, and I a print out of all 100% hits.

Thanks,

Patricia A. Duffy, Ph.D.
Art Unit 1645
Remsen 3B05; Mailbox 3C18
571-272-0855

RECEIVED
MAR 22 2005
STIC

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2- _____
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: _____ AA#: _____
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

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2	19	90.5	19	6	AX592329	AX592329 Sequence
3	19	90.5	22	6	AX592340	AX592340 Sequence
4	18.4	87.6	110000	1	AE016822_01	Continuation (2 of
5	18	85.7	19	6	AX592334	AX592334 Sequence
6	17.8	84.8	164921	8	AF022186	AF022186 Cyanidium
7	17.4	82.9	19	6	AX592366	AX592366 Sequence
8	17.4	82.9	19	6	AX592367	AX592367 Sequence
9	17	81.0	19	6	AX592333	AX592333 Sequence
10	16.8	80.0	198	8	BA9540363	AX540263 Unculture
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18	16.8	80.0	3047	3	AF257646	AF257646 Drosophil
19	16.8	80.0	3050	3	AF257642	AF257642 Drosophil

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REFERENCE
AUTHORS      Fearon,K.L. and Dina,D.
TITLE        Immunomodulatory polynucleotides and methods of using the same
JOURNAL      Patent: WO 02052002-A 19 04-JUL-2002;
              Dynavax Technologies Corporation (US)
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ACCESSION     AX592340
VERSION       AX592340.1 GI:27950442
KEYWORDS      synthetic construct
SOURCE        synthetic construct
ORGANISM      other sequences; artificial sequences.
REFERENCE     1
AUTHORS        Fearon,K.L. and Dina,D.
TITLE          Immunomodulatory polynucleotides and methods of using the same
JOURNAL        Patent: WO 02052002-A 30 04-JUL-2002;
              Dynavax Technologies Corporation (US)
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AE016822_08 800001 910000
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ACCESSION     AX592334
VERSION       AX592334.1 GI:27950436
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SOURCE        synthetic construct
ORGANISM      other sequences; artificial sequences.
REFERENCE     1
AUTHORS        Fearon,K.L. and Dina,D.
TITLE          Immunomodulatory polynucleotides and methods of using the same
JOURNAL        Patent: WO 02052002-A 24 04-JUL-2002;
              Dynavax Technologies Corporation (US)
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ACCESSION     AF022186 Z36235 Z70297
VERSION       AF022186.2 GI:6466296
KEYWORDS      chloroplast Cyanidium caldarium
SOURCE        Cyanidium caldarium
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              Cyanidium.
              1 (bases 130696 to 132364)
              Vogel,H., Fischer,S. and Valentin,K.
              A model for the evolution of the plastid sec apparatus inferred
              from secY gene phylogeny
              Plant Mol. Biol. 32 (4), 685-692 (1996)

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Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 TCGTCGAACGTTTCGAGATG 21
Db 113659 TCGCCAAACGTTTCGAGATG 113679

Query Match 84.8%; Score 17.8; DB 8; Length 164921;
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Db 113659 TCGCCAAACGTTTCGAGATG 113679

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Best Local Similarity 94.7%; Pred. No. 75;
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Db 1 TCGTCGGACGTTTCGAGATG 19

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Db 1 TCGTCGGACGTTTCGAGATG 19

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Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Best Local Similarity 94.7%; Pred. No. 75;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db 1 TCGTCGGACGTTTCGAGATG 19

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Best Local Similarity 94.7%; Pred. No. 75;
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Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TCGTCGAACGTTTCGAGATG 19
Db 1 TCGTCGGACGTTTCGAGATG 19

JOURNAL Submitted (19-APR-2000) Ecology and Evolution, State University of New York, Stony Brook, NY 11794, USA

FEATURES source

Location/Qualifiers

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ORIGIN

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RESULT 13

AF257637/c

LOCUS

DEFINITION Drosophila simulans strain DPF96_3s hexokinase-t1 and hexokinase-t2 genes, complete cds.

ACCESSION AF257637

VERSION AF257637.1 GI:10765240

KEYWORDS

SOURCE

ORGANISM

Drosophila simulans

Drosophila simulans

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.

1 (bases 1 to 3047)

Duvernell,D.D. and Eanes,W.F.

Contrasting molecular population genetics of four hexokinases in Drosophila melanogaster and Drosophila simulans

Genetics (2000) In press

2 (bases 1 to 3047)

Duvernell,D.D. and Eanes,W.F.

Direct Submission

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

Submitted (19-APR-2000) Ecology and Evolution, State University of New York, Stony Brook, NY 11794, USA

JOURNAL Submitted (19-APR-2000) Ecology and Evolution, State University of New York, Stony Brook, NY 11794, USA

FEATURES source

Location/Qualifiers

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ORIGIN

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Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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RESULT 14

AF257639/c

LOCUS

DEFINITION Drosophila simulans strain Ctr96_5s hexokinase-t1 and hexokinase-t2 genes, complete cds.

ACCESSION AF257639

VERSION AF257639.1 GI:10765246

KEYWORDS

SOURCE

ORGANISM

Drosophila simulans

Drosophila simulans

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.

1 (bases 1 to 3047)

Duvernell,D.D. and Eanes,W.F.

Contrasting molecular population genetics of four hexokinases in Drosophila melanogaster and Drosophila simulans

Genetics (2000) In press

2 (bases 1 to 3047)

Duvernell,D.D. and Eanes,W.F.

Direct Submission

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

Submitted (19-APR-2000) Ecology and Evolution, State University of New York, Stony Brook, NY 11794, USA

FEATURES source

Location/Qualifiers

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Job time : 1816 secs

FEATURES source

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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(without alignments)
291.818 Million cell updates/sec

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Perfect score: 21

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Scoring table: IDENTITY_NUC

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Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 12: Geneseqn2004as:*
- 13: Geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	21	100.0	21	ABQ75182	ISS immun
2	21	100.0	21	ADK67599	Adk67599 Immunosti
3	21	100.0	21	ADQ16896	Adq16896 Immunomod
4	21	100.0	21	ADQ16939	Adq16939 Immunomod
5	21	100.0	21	ADQ16892	Adq16892 Immunomod
6	21	100.0	21	ADQ16924	Adq16924 Immunomod
7	21	100.0	21	ADQ16748	Adq16748 Immunomod
8	21	100.0	21	ADQ16895	Adq16895 Immunomod
9	21	100.0	21	ADQ16898	Adq16898 Immunomod
10	21	100.0	21	ADQ16901	Adq16901 Immunomod
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18	20	95.2	21	ADQ16750	Adq16750 Immunomod
19	19	90.5	19	ABQ75170	ISS immun
20	19	90.5	19	ADB88838	Chimeric

21	19	90.5	19	10	ACC49937	Acc49937 Human imm
22	19	90.5	19	12	ADQ95304	Adq95304 Branched
23	19	90.5	19	12	ADQ95303	Adq95303 Branched
24	19	90.5	19	12	ADQ95299	Adq95299 Branched
25	19	90.5	19	13	ADQ16876	Adq16876 Immunomod
26	19	90.5	19	13	ADQ16744	Adq16744 Immunomod
27	19	90.5	22	6	ABQ75181	Abq75181 ISS immun
28	19	90.5	22	9	ADB88849	ADB88849 Chimeric
29	19	90.5	22	12	ADQ95310	Adq95310 Branched
30	19	90.5	22	13	ADQ16745	Adq16745 Immunomod
31	18	85.7	18	13	ADQ16820	Adq16820 Immunomod
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33	18	85.7	19	9	ADB88843	ADB88843 Chimeric
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38	17.8	84.8	21	13	ADQ16790	Adq16790 Immunomod
39	17.8	84.8	21	13	ADQ16772	Adq16772 Immunomod
40	17.8	84.8	21	13	ADQ16769	Adq16769 Immunomod
41	17.8	84.8	21	13	ADQ16768	Adq16768 Immunomod
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ALIGNMENTS

RESULT 1

ABQ75182

ID ABQ75182 standard; DNA; 21 BP.

XX AC ABQ75182;

DT 05-NOV-2002 (first entry)

DE ISS immunomodulatory oligonucleotide SEQ ID NO:132.

KW Immunostimulatory sequence; ISS: immunomodulatory; immune response;
allergy; asthma; infectious disease; interferon-gamma; IFN-gamma;
idiopathic pulmonary fibrosis; viral infection; mycobacterial disease;
malaria; leishmaniasis; toxoplasmosis; schistosomiasis; clonorchiasis;
immunoglobulin E; IgE-related disorder; antiallergic; antiasthmatic;
virucide; antibacterial; protozoacide; ss.

XX OS Synthetic.

XX WO200252002-A2.

XX 04-JUL-2002.

XX 27-DEC-2001; 2001WO-US050821.

XX 27-DEC-2000; 2000US-0258675P.

XX (DYNA-) DYNAVAX TECHNOLOGIES CORP.

XX Fearon KL, Dina D;

XX WPI; 2002-657426/70.

XX Immunomodulatory polynucleotide for modulating an immune response in a
subject suffering from disorders associated with Th2-type immune
response, e.g. allergy, or infectious disease, comprises an
immunostimulatory sequence.

XX Claim 4; Page 21; 95pp; English.

XX The present invention describes an immunomodulatory polynucleotide (I)
comprising an immunostimulatory sequence (ISS). Also described: (1) an
immunomodulatory composition comprising (I); (2) an immunomodulatory

CC polynucleotide/microcarrier (IMP/MC) complex, comprising (I) linked to a
 CC biodegradable MC, where the MC is less than 10 micrometre in size; and
 CC (3) a kit comprising (I). (I) has anti-allergic, antiasthmatic, virucide,
 CC antibacterial and protozoacide activities, and can be used as a modulator
 CC of immune response. (I) is useful for modulating an immune response in an
 CC individual suffering from disorders associated with a Th2-type immune
 CC response, especially an allergy or asthma, or an infectious disease. (I)
 CC is also useful for increasing interferon-gamma (IFN-gamma) in an
 CC individual having idiopathic pulmonary fibrosis, or IFN-alpha in an
 CC individual having a viral infection. (I) is further useful for
 CC ameliorating a symptom of an infectious disease caused by a cellular
 CC pathogen such as mycobacterial disease, malaria, leishmaniasis,
 CC toxoplasmosis, schistosomiasis and clonorchiasis in an individual, or a
 CC symptom of an immunoglobulin E (IgE)-related disorder, preferably an
 CC allergy-related disorder, in particular asthma in an individual. The
 CC present invention represents an immunomodulatory oligonucleotide from the
 CC present invention
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 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 6; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 2
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 ID ADK67599 standard; DNA; 21 BP.
 AC ADK67599;
 XX
 XX
 DT 06-MAY-2004 (first entry)
 XX
 DE Immunostimulant oligonucleotide, for immunomodulatory composition.
 XX
 KW Immunomodulator; immunostimulant; vaccine; ss.

OS Synthetic.
 XX
 XX WO2004014322-A2.
 XX
 PD 19-FEB-2004.
 XX
 XX 12-AUG-2003; 2003WO-US025415.
 XX
 PF 12-AUG-2002; 2002US-0402966P.
 PR
 XX (DYNA-) DYNAVAX TECHNOLOGIES CORP.
 PA
 XX Van Nest G, Tuck S;
 PI
 XX WPI; 2004-238627/22.
 DR

XX Immunomodulatory composition useful for modulating immune responses in
 PT individuals, comprises immunomodulatory particles or a particulate
 PT composition made by mixing cationic condensing agent and an
 PT immunomodulatory compound.
 XX

PS Example 6; SEQ ID NO 39; 90pp; English.
 XX
 CC The present sequence is that of an immunomodulatory compound (IMC) that
 CC was used in an example from the invention. Novel immunomodulatory
 CC compositions of the invention comprise a cationic condensing agent, an
 CC IMC comprising the nucleotide sequence 5'-CG-3', and a stabilising agent.
 CC The compositions form particles which have increased immunomodulatory
 CC activity as compared to IMCs not formulated in the compositions of the
 CC invention. The immunomodulatory compositions can be used for
 CC immunomodulation of an individual, e.g. when the individual suffers from
 CC a disorder associated with a Th2-type immune response (e.g. allergies or

CC allergy-induced asthma), is receiving vaccines such as therapeutic
 CC vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial
 CC epitope or a tumour associated epitope) or prophylactic vaccines, suffers
 CC from cancer, suffers from an infectious disease or is at risk of exposure
 CC to an infectious agent. In an example from the invention, the present IMC
 CC was used to examine the effects of polymyxin particulate formulations on
 CC immunostimulant activity in human peripheral blood mononuclear cells, and
 CC enhancement of interferon-alpha production from plasmacytoid dendritic
 CC cells by IMC particulate formulations.

XX
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 12; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
 ADQ16896
 ID ADQ16896 standard; DNA; 21 BP.

XX
 AC ADQ16896;
 XX
 DT 07-OCT-2004 (first entry)
 XX

XX Immunomodulatory polynucleotide, SEQ ID NO 190.

XX Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 KW dermatological; anti-inflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antitumor; nephrotropic; IgE-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.

XX Unidentified.

XX WO2004058179-A2.

XX 15-JUL-2004.

XX 18-DEC-2003; 2003WO-US041001.

XX 23-DEC-2002; 2002US-0436122P.

XX 13-FEB-2003; 2003US-0447885P.

XX 01-MAY-2003; 2003US-0467546P.

XX (DYNA-) DYNAVAX TECHNOLOGIES.

XX Dina D, Fearon KL, Marshall J;

XX WPI; 2004-525782/50.

XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprises palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.

XX Example 1; SEQ ID NO 190; 119pp; English.

XX The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes

all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory polynucleotides have the following activities: antimicrobial, antiallergic, antiasthmatic, dermatological, antiinflammatory, ophthalmological, immunosuppressive, antibacterial, vasotropic, antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer, and nephrotropic. The immunomodulatory polynucleotides can be used for ameliorating a symptom of an infectious disease and IGE-related disorder. The IMP's may also be used for the treatment of a disorder associated with a T helper (TH)2-type immune response (e.g. allergies, allergy-induced asthma or atopic dermatitis), individuals receiving vaccines such as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.

XX Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.37; Indels 0; Gaps 0; Matches 21; Conservative 0; Mismatches 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21

Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 4

ADQ16939

ID ADQ16939 standard; DNA; 21 BP.

XX AC ADQ16939;

XX DT 07-OCT-2004 (first entry)

XX DE Immunomodulatory polynucleotide, SEQ ID No 184.

XX Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide; trinucleotide; antimicrobial; antiallergic; antiasthmatic; dermatological; antiinflammatory; ophthalmological; immunosuppressive; antibacterial; vasotropic; antiparasitic; virucide; hepatotropic; anti-HIV; cytostatic; antiulcer; nephrotropic; IGE-related disorder; T helper; (TH)2-type immune response; vaccine; prophylactic; immune; interferon-gamma; interferon-alpha; type I interferon; IFN-alpha; IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ds.

XX Unidentified.

XX WO2004058179-A2.

XX PD 15-JUL-2004.

XX PF 18-DEC-2003; 2003WO-US041001.

XX PR 23-DEC-2002; 2002US-0436122P.

XX PR 13-FEB-2003; 2003US-0447885P.

XX PR 01-MAY-2003; 2003US-0467546P.

XX

PA (DYNA-) DYNAVAX TECHNOLOGIES.

PI Dina D, Fearon KL, Marshall J;

DR WPI; 2004-525782/50.

XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic dermatitis comprises palindromic sequence comprising at least eight bases in length, which contains at least two dinucleotides and at least one trinucleotide.

XX Disclosure; SEQ ID NO 184; 119pp; English.

The invention relates to a novel immunomodulatory polynucleotide (IMP) comprising a palindromic sequence. The palindromic sequence comprises at least 8 bases in length, which contains at least two dinucleotides (CG), and at least one trinucleotide (TCG)Y at or near the 5' end of the polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5' T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the palindromic sequence by 0 - 2 bases. The palindromic sequence includes all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory polynucleotides have the following activities: antimicrobial, antiallergic, antiasthmatic, dermatological, antiinflammatory, ophthalmological, immunosuppressive, antibacterial, vasotropic, antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer, and nephrotropic. The immunomodulatory polynucleotides can be used for ameliorating a symptom of an infectious disease and IGE-related disorder. The IMP's may also be used for the treatment of a disorder associated with a T helper (TH)2-type immune response (e.g. allergies, allergy-induced asthma or atopic dermatitis), individuals receiving vaccines such as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.

XX Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.37;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21

Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 5

ADQ16892/C

ID ADQ16892 standard; DNA; 21 BP.

XX AC ADQ16892;

XX DT 07-OCT-2004 (first entry)

XX DE Immunomodulatory polynucleotide, SEQ ID No 182.

XX

KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotrophic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGF-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX
 OS Unidentified.
 XX
 XX WO2004058179-A2.
 FN
 PN
 XX
 PD 15-JUL-2004.
 XX
 PF 18-DEC-2003; 2003WO-US041001.
 XX
 XX 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.
 XX
 XX (DYNA-) DYNAVAX TECHNOLOGIES.
 PA
 XX Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 DR
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprising palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX
 PS Example 1; SEQ ID NO 182; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG)Y at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the
 CC palindromic sequence. The (TCG)Y is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC antiallergic, antiasthmatic, dermatological, antibacterial, vasotrophic,
 CC ophthalmological, immunosuppressive, anti-HIV, cytostatic, antiulcer,
 CC antiparasitic, virucide, hepatotropic, nephrotropic, IGF-related disorder,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGF-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumor associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX

SQ Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. NO. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY . 1 TCGTCGAACGTTCCGAGATGAT 21
 |||||
 DB 21 TCGTCGAACGTTCCGAGATGAT 1
 |||||
 RESULT 6
 ADQ16924
 ID ADQ16924 standard; DNA; 21 BP.
 XX
 AC ADQ16924;
 XX
 DT 07-OCT-2004 (first entry)
 XX
 DE Immunomodulatory polynucleotide, SEQ ID NO 218.
 XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotrophic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGF-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX
 OS Unidentified.
 PN WO2004058179-A2.
 XX
 PD 15-JUL-2004.
 PF 18-DEC-2003; 2003WO-US041001.
 XX
 XX 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.
 XX
 XX (DYNA-) DYNAVAX TECHNOLOGIES.
 PA
 XX Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 DR
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprising palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX
 PS Disclosure; SEQ ID NO 218; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG)Y at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the
 CC palindromic sequence. The (TCG)Y is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC antiallergic, antiasthmatic, dermatological, antibacterial, vasotrophic,
 CC ophthalmological, immunosuppressive, anti-HIV, cytostatic, antiulcer,
 CC antiparasitic, virucide, hepatotropic, nephrotropic, IGF-related disorder,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGF-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumor associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX

as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a mycobacterial epitope or a tumour associated epitope) or prophylactic vaccines. The IMP's can also be used for the treatment of e.g. food allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock, Hymenoptera sting allergies and drug allergies and parasitic infections; viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer; inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g. idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic fibrosis, renal fibrosis. The IMP's may also be used to create a prophylactic vaccine to increase resistance to infection by bacterial or viral pathogens. The immunomodulatory polynucleotide modulates an immune response; or increases interferon-gamma; or interferon-alpha; effectively stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-omega and IFN-gamma, production from human cells; effectively stimulates B cells to proliferate; and activates plasmacytoid dendritic cells to undergo maturation which can result in retardation of plasmacytoid dendritic cell apoptosis in culture. This polynucleotide sequence represents an immunomodulatory polynucleotide of the invention.

XX	Claim 9; SEQ ID NO 27; 119pp; English.
PS	The invention relates to a novel immunomodulatory polynucleotide (IMP)
XX	comprising a palindromic sequence. The palindromic sequence comprises at
CC	least 8 bases in length, which contains at least two dinucleotides (CG),
CC	and at least one trinucleotide (TCG)ly at or near the 5' end of the
CC	polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
CC	T of the (TCG)y is positioned 0 - 3 bases from the 5' end of the
CC	polynucleotide. The (TCG)y is separated from the 5' end of the
CC	palindromic sequence by 0 - 2 bases. The palindromic sequence includes
CC	all or part of the (TCG)y sequence, where y=1 or 2. The immunomodulatory
CC	polynucleotides have the following activities: antimicrobial,
CC	anti-allergic, antiasthmatic, dermatological, antiinflammatory,
CC	ophthalmological, immunosuppressive, antibacterial, vasotropic,
CC	antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antitumor,
CC	and nephrotropic. The immunomodulatory polynucleotides can be used for
CC	ameliorating a symptom of an infectious disease and IgE-related disorder.
CC	The IMP's may also be used for the treatment of a disorder associated
CC	with a T helper (TH)2-type immune response (e.g. allergies, allergy-
CC	induced asthma or atopic dermatitis), individuals receiving vaccines such
CC	as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
CC	mycobacterial epitope or a tumour associated epitope) or prophylactic
CC	vaccines. The IMP's can also be used for the treatment of e.g. food
CC	allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
CC	Hymenoptera sting allergies and drug allergies and parasitic infections;
CC	viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
CC	immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
CC	inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
CC	idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
CC	fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
CC	fibrosis, renal fibrosis. The IMP's may also be used to create a
CC	prophylactic vaccine to increase resistance to infection by bacterial or
CC	viral pathogens. The immunomodulatory polynucleotide modulates an immune
CC	response; or increases interferon-gamma; or interferon-alpha; effectively
CC	stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
CC	omega and IFN-gamma, production from human cells; effectively stimulates
CC	B cells to proliferate; and activates plasmacytoid dendritic cells to
CC	undergo maturation which can result in retardation of plasmacytoid
CC	dendritic cell apoptosis in culture. This polynucleotide sequence
CC	represents an immunomodulatory polynucleotide of the invention.
XX	
SQ	Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
	Query Match 100.0%; Score 21; DB 13; Length 21;
	Best Local Similarity 100.0%; Pred. No. 0.37;
	Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0
QY	1 TCCTCGAACCTTCGAGATGAT 21
Db	1 TCCTCGAACCTTCGAGATGAT 21
RESULT 8	
ADQ16895	
ID	ADQ16895 standard; DNA; 21 BP.
XX	
AC	ADQ16895;
XX	
DT	07-OCT-2004 (first entry)
XX	
DE	Immunomodulatory polynucleotide, SEQ ID No 189.
XX	
KW	Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
KW	trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
KW	dermatologic; antiinflammatory; ophthalmological; immunosuppressive;
KW	antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
KW	anti-HIV; cytostatic; antitumor; nephrotropic; IgE-related disorder;
KW	T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
KW	interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
KW	IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
XX	
OS	Unidentified.

XX WO2004058179-A2.
 XX PD 15-JUL-2004.
 XX PF 18-DEC-2003; 2003WO-US041001.
 XX PR 23-DEC-2002; 2002US-0436122P.
 XX PR 13-FEB-2003; 2003US-0447885P.
 XX PR 01-MAY-2003; 2003US-0467546P.
 XX PA (DYNA-) DYNAVAX TECHNOLOGIES.
 XX PI Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprising palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX
 PS Example 1; SEQ ID NO 189; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG) sequence, where y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC anti-allergic, antiasthmatic, dermatological, antibacterial, vasotropic,
 CC ophthalmological, immunosuppressive, antiparasitic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and Igs-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCGTCGAACGTTTCGAGATGAT 21
 |||||
 DB 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 9
 ID ADQ16898/c
 XX ADQ16898 standard; DNA; 21 BP.
 XX AC ADQ16898;
 XX DT 07-OCT-2004 (first entry)
 XX DE Immunomodulatory polynucleotide, SEQ ID NO 192.
 XX KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; Igs-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX OS Unidentified.
 XX PN WO2004058179-A2.
 XX PD 15-JUL-2004.
 XX PF 18-DEC-2003; 2003WO-US041001.
 XX PR 23-DEC-2002; 2002US-0436122P.
 XX PR 13-FEB-2003; 2003US-0447885P.
 XX PR 01-MAY-2003; 2003US-0467546P.
 XX (DYNA-) DYNAVAX TECHNOLOGIES.
 XX PA Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprising palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX
 PS Disclosure; SEQ ID NO 192; 119pp; English.
 XX
 CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG) sequence, where y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC anti-allergic, antiasthmatic, dermatological, antibacterial, vasotropic,
 CC ophthalmological, immunosuppressive, antiparasitic, anti-HIV, cytostatic, antiulcer,
 CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and Igs-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.

CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 SQ Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 TCGTCGAACGTCGAGATGAT 21
 Db 21 TCGTCGAACGTCGAGATGAT 1
 RESULT 10
 ADQ16901
 ID ADQ16901 standard; DNA; 21 BP.
 AC ADQ16901;
 DT 07-OCT-2004 (first entry)
 DE Immunomodulatory polynucleotide, SEQ ID No 195.
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGE-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 OS Unidentified.
 OS WO2004058179-A2.
 FN 15-JUL-2004.
 PD 18-DEC-2003; 2003WO-US041001.
 PF 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.
 XX (DYNA-) DYNAVAX TECHNOLOGIES.
 XX Dina D, Fearon KL, Marshall J;
 XX WPI; 2004-525782/50.
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprises palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX Disclosure; SEQ ID NO 195; 119pp; English.
 XX The invention relates to a novel immunomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the

CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG) sequence, where y= 1 or 2. The immunomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC anti-allergic, antiasthmatic, dermatological, antiinflammatory,
 CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immunomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGE-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 CC fibrosis, renal fibrosis. The IMP's may also be used to create a
 CC prophylactic vaccine to increase resistance to infection by bacterial or
 CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
 CC response; or increases interferon-gamma; or interferon-alpha; effectively
 CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 CC omega and IFN-gamma, production from human cells; effectively stimulates
 CC B cells to proliferate; and activates plasmacytoid dendritic cells to
 CC undergo maturation which can result in retardation of plasmacytoid
 CC dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX
 SQ Sequence 21 BP; 5 A; 6 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 TCGTCGAACGTCGAGATGAT 21
 Db 1 TCGTCGAACGTCGAGATGAT 21
 RESULT 11
 ADQ16922/c
 ID ADQ16922 standard; DNA; 21 BP.
 AC ADQ16922;
 XX 07-OCT-2004 (first entry)
 DT Immunomodulatory polynucleotide, SEQ ID No 216.
 XX Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGE-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 OS Unidentified.
 OS WO2004058179-A2.
 FN 15-JUL-2004.
 PD 18-DEC-2003; 2003WO-US041001.
 PF 23-DEC-2002; 2002US-0436122P.
 PR 13-FEB-2003; 2003US-0447885P.
 PR 01-MAY-2003; 2003US-0467546P.

XX SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTCGAGATGAT 21
 |||||
 Db 1 TCGTCGAACGTCGAGATGAT 21
 |||||

RESULT 13
 ADQ16940
 ID ADQ16940 standard; DNA; 21 BP.
 AC ADQ16940;
 XX
 XX 07-OCT-2004 (first entry)
 XX
 DE Immunomodulatory polynucleotide, SEQ ID No 185.
 XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; Ige-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ds.
 XX
 OS Unidentified.
 XX
 XX WO2004058179-A2.
 XX
 XX 15-JUL-2004.
 XX
 XX 18-DEC-2003; 2003WO-US041001.
 XX
 XX 23-DEC-2002; 2002US-0436122P.
 XX
 XX 13-FEB-2003; 2003US-0447885P.
 XX
 XX 01-MAY-2003; 2003US-0467546P.
 XX
 XX (DYNA-) DYNAVAX TECHNOLOGIES.
 XX
 XX Dina D, Fearon KL, Marshall J;
 XX
 XX WPI; 2004-525782/50.
 XX
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 XX dermatitis comprises palindromic sequence comprising at least eight bases
 XX in length, which contains at least two dinucleotides and at least one
 XX trinucleotide.
 XX
 PS Disclosure; SEQ ID NO 185; 119pp; English.
 XX
 XX The invention relates to a novel immunomodulatory polynucleotide (IMP)
 XX comprising a palindromic sequence. The palindromic sequence comprises at
 XX least 8 bases in length, which contains at least two dinucleotides (CG),
 XX and at least one trinucleotide (TCG) at or near the 5' end of the
 XX polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 XX T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 XX polynucleotide. The (TCG) is separated from the 5' end of the
 XX palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 XX all or part of the (TCG) sequence, where y = 1 or 2. The immunomodulatory
 XX polynucleotides have the following activities: antimicrobial,
 XX antiallergic, antiasthmatic, dermatological, antiinflammatory,
 XX ophthalmological, immunosuppressive, antibacterial, vasotropic,
 XX antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 XX and nephrotropic. The immunomodulatory polynucleotides can be used for
 XX ameliorating a symptom of an infectious disease and Ige-related disorder.
 XX The IMP's may also be used for the treatment of a disorder associated
 XX with a T helper (TH)2-type immune response (e.g. allergies, allergy-

induced asthma or atopic dermatitis), individuals receiving vaccines such
 as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 mycobacterial epitope or a tumour associated epitope) or prophylactic
 vaccines. The IMP's can also be used for the treatment of e.g. food
 allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 hymenoptera sting allergies and drug allergies and parasitic infections;
 viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
 immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
 fibrosis, renal fibrosis. The IMP's may also be used to create a
 prophylactic vaccine to increase resistance to infection by bacterial or
 viral pathogens. The immunomodulatory polynucleotide modulates an immune
 response; or increases interferon-gamma; or interferon-alpha; effectively
 stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
 omega and IFN-gamma, production from human cells; effectively stimulates
 B cells to proliferate; and activates plasmacytoid dendritic cells to
 undergo maturation which can result in retardation of plasmacytoid
 dendritic cell apoptosis in culture. This polynucleotide sequence
 CC represents an immunomodulatory polynucleotide of the invention.
 XX
 SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
 Query Match 100.0%; Score 21; DB 13; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTCGAGATGAT 21
 |||||
 Db 1 TCGTCGAACGTCGAGATGAT 21
 |||||

RESULT 14
 ADQ16894
 ID ADQ16894 standard; DNA; 21 BP.
 XX
 XX AC ADQ16894;
 XX
 XX 07-OCT-2004 (first entry)
 XX
 DE Immunomodulatory polynucleotide, SEQ ID No 188.
 XX
 KW Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmological; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; Ige-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
 XX
 OS Unidentified.
 XX
 XX WO2004058179-A2.
 XX
 XX 15-JUL-2004.
 XX
 XX 18-DEC-2003; 2003WO-US041001.
 XX
 XX 23-DEC-2002; 2002US-0436122P.
 XX
 XX 13-FEB-2003; 2003US-0447885P.
 XX
 XX 01-MAY-2003; 2003US-0467546P.
 XX
 XX (DYNA-) DYNAVAX TECHNOLOGIES.
 XX
 XX Dina D, Fearon KL, Marshall J;
 XX
 XX WPI; 2004-525782/50.
 XX
 XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
 XX dermatitis comprises palindromic sequence comprising at least eight bases
 XX in length, which contains at least two dinucleotides and at least one

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PT trinucleotide.
XX
XX Example 1; SEQ ID NO 188; 119pp; English.
XX
CC The invention relates to a novel immunomodulatory polynucleotide (IMP)
CC comprising a palindromic sequence. The palindromic sequence comprises at
CC least 8 bases in length, which contains at least two dinucleotides (CG),
CC and at least one trinucleotide (TCG)Y at or near the 5' end of the
CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
CC T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the
CC polynucleotide. The (TCG)Y is separated from the 5' end of the
CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
CC all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory
CC polynucleotides have the following activities: antimicrobial,
CC anti-allergic, antiasthmatic, dermatological, antibacterial, vasotropic,
CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
CC and nephrotropic. The immunomodulatory polynucleotides can be used for
CC ameliorating a symptom of an infectious disease and Ige-related disorder.
CC The IMP's may also be used for the treatment of a disorder associated
CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
CC induced asthma or atopic dermatitis), individuals receiving vaccines such
CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
CC mycobacterial epitope or a tumour associated epitope) or prophylactic
CC vaccines. The IMP's can also be used for the treatment of e.g. food
CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
CC Hymenoptera sting allergies and drug allergies and parasitic infections;
CC viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
CC fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
CC fibrosis, renal fibrosis. The IMP's may also be used to create a
CC prophylactic vaccine to increase resistance to infection by bacterial or
CC viral pathogens. The immunomodulatory polynucleotide modulates an immune
CC response; or increases interferon-gamma; or interferon-alpha; effectively
CC stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
CC omega and IFN-gamma, production from human cells; effectively stimulates
CC B cells to proliferate; and activates plasmacytoid dendritic cells to
CC undergo maturation which can result in retardation of plasmacytoid
CC dendritic cell apoptosis in culture. This polynucleotide sequence
CC represents an immunomodulatory polynucleotide of the invention.
XX
SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
Db 1 TCGTCGAACGTTTCGAGATGAT 21

RESULT 15
ADQ16941
ID ADQ16941 standard; DNA; 21 BP.
XX
XX AC ADQ16941;
XX
XX 07-OCT-2004 (first entry)
XX
XX Immunomodulatory polynucleotide, SEQ ID NO 186.
XX
XX Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
XX trinucleotide; antimicrobial; anti-allergic; antiasthmatic;
XX dermatological; antiinflammatory; ophthalmological; immunosuppressive;
XX antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
XX anti-HIV; cytostatic; antiulcer; nephrotropic; Ige-related disorder;
XX T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
XX interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
XX IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ds.

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OS Unidentified.
XX
XX WO2004058179-A2.
XX
XX 15-JUL-2004.
XX
XX 18-DEC-2003; 2003WO-US041001.
XX
XX 23-DEC-2002; 2002US-0436122P.
XX
XX 13-FEB-2003; 2003US-0447885P.
XX
XX 01-MAY-2003; 2003US-0467546P.
XX
XX (DYNA-) DYNAVAX TECHNOLOGIES.
XX
XX Dina D, Fearon KL, Marshall J;
XX
XX WPI; 2004-525782/50.
XX
XX Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
XX dermatitis comprises palindromic sequence comprising at least eight bases
XX in length, which contains at least two dinucleotides and at least one
XX trinucleotide.
XX
XX Disclosure; SEQ ID NO 186; 119pp; English.
XX
XX The invention relates to a novel immunomodulatory polynucleotide (IMP)
XX comprising a palindromic sequence. The palindromic sequence comprises at
XX least 8 bases in length, which contains at least two dinucleotides (CG),
XX and at least one trinucleotide (TCG)Y at or near the 5' end of the
XX polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
XX T of the (TCG)Y is positioned 0 - 3 bases from the 5' end of the
XX polynucleotide. The (TCG)Y is separated from the 5' end of the
XX palindromic sequence by 0 - 2 bases. The palindromic sequence includes
XX all or part of the (TCG)Y sequence, where Y= 1 or 2. The immunomodulatory
XX polynucleotides have the following activities: antimicrobial,
XX anti-allergic, antiasthmatic, dermatological, antibacterial, vasotropic,
XX ophthalmological, immunosuppressive, antibacterial, vasotropic,
XX antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
XX and nephrotropic. The immunomodulatory polynucleotides can be used for
XX ameliorating a symptom of an infectious disease and Ige-related disorder.
XX The IMP's may also be used for the treatment of a disorder associated
XX with a T helper (TH)2-type immune response (e.g. allergies, allergy-
XX induced asthma or atopic dermatitis), individuals receiving vaccines such
XX as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
XX mycobacterial epitope or a tumour associated epitope) or prophylactic
XX vaccines. The IMP's can also be used for the treatment of e.g. food
XX allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
XX Hymenoptera sting allergies and drug allergies and parasitic infections;
XX viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
XX immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
XX inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
XX idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
XX fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
XX fibrosis, renal fibrosis. The IMP's may also be used to create a
XX prophylactic vaccine to increase resistance to infection by bacterial or
XX viral pathogens. The immunomodulatory polynucleotide modulates an immune
XX response; or increases interferon-gamma; or interferon-alpha; effectively
XX stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
XX omega and IFN-gamma, production from human cells; effectively stimulates
XX B cells to proliferate; and activates plasmacytoid dendritic cells to
XX undergo maturation which can result in retardation of plasmacytoid
XX dendritic cell apoptosis in culture. This polynucleotide sequence
XX represents an immunomodulatory polynucleotide of the invention.
XX
XX Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 21; DB 13; Length 21;
XX Best Local Similarity 100.0%; Pred. No. 0.37;
XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX Qy 1 TCGTCGAACGTTTCGAGATGAT 21
XX Db 1 TCGTCGAACGTTTCGAGATGAT 21

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RESULT 16
 ADQ16897
 ID ADQ16897 standard; DNA; 21 BP.
 XX AC ADQ16897;
 XX AC
 XX DT 07-OCT-2004 (first entry)
 XX DT
 XX DT
 XX DT
 XX DT
 XX DE Immuomodulatory polynucleotide, SEQ ID NO 191.
 XX DE
 XX DE
 XX DE Immuomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
 KW trinucleotide; antimicrobial; antiallergic; antiasthmatic;
 KW dermatological; antiinflammatory; ophthalmologic; immunosuppressive;
 KW antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
 KW anti-HIV; cytostatic; antiulcer; nephrotropic; IGF-related disorder;
 KW T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
 KW interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
 KW IFN-omega; IFN-gamma; plasmacytoid dendritic cell; BS.
 XX KW
 XX OS Unidentified.
 XX OS
 XX OS WO2004058179-A2.
 XX PN
 XX PN
 XX PD 15-JUL-2004.
 XX PD
 XX PD 18-DEC-2003; 2003WO-US041001.
 XX PF
 XX PF 23-DEC-2002; 2002US-0436122P.
 XX PR 13-FEB-2003; 2003US-0447885P.
 XX PR 01-MAY-2003; 2003US-0467546P.
 XX PR
 XX PA (DYNA-) DYNVAX TECHNOLOGIES.
 XX PA
 XX PA Dina D, Fearon KL, Marshall J;
 XX PI
 XX PI WPI; 2004-525782/50.
 XX DR
 XX DR
 XX PT Immuomodulatory polynucleotide useful for the treatment of e.g. atopic
 PT dermatitis comprises palindromic sequence comprising at least eight bases
 PT in length, which contains at least two dinucleotides and at least one
 PT trinucleotide.
 XX PT
 XX PS Disclosure; SEQ ID NO 191; 119pp; English.
 XX PS
 XX PS
 CC CC The invention relates to a novel immuomodulatory polynucleotide (IMP)
 CC comprising a palindromic sequence. The palindromic sequence comprises at
 CC least 8 bases in length, which contains at least two dinucleotides (CG),
 CC and at least one trinucleotide (TCG) at or near the 5' end of the
 CC polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
 CC T of the (TCG) is positioned 0 - 3 bases from the 5' end of the
 CC polynucleotide. The (TCG) is separated from the 5' end of the
 CC palindromic sequence by 0 - 2 bases. The palindromic sequence includes
 CC all or part of the (TCG) sequence, where y= 1 or 2. The immuomodulatory
 CC polynucleotides have the following activities: antimicrobial,
 CC antiallergic, antiasthmatic, dermatological, antiinflammatory,
 CC ophthalmological, immunosuppressive, antibacterial, vasotropic,
 CC antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
 CC and nephrotropic. The immuomodulatory polynucleotides can be used for
 CC ameliorating a symptom of an infectious disease and IGF-related disorder.
 CC The IMP's may also be used for the treatment of a disorder associated
 CC with a T helper (TH)2-type immune response (e.g. allergies, allergy-
 CC induced asthma or atopic dermatitis), individuals receiving vaccines such
 CC as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
 CC mycobacterial epitope or a tumour associated epitope) or prophylactic
 CC vaccines. The IMP's can also be used for the treatment of e.g. food
 CC allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
 CC Hymenoptera sting allergies and drug allergies and parasitic infections;
 CC viral disease e.g. Hepatitis B, Hepatitis C, influenza, Acquired
 CC immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
 CC inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
 CC idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
 CC

CC	fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
CC	fibrosis, renal fibrosis. The IMP's may also be used to create a
CC	prophylactic vaccine to increase resistance to infection by bacterial or
CC	viral pathogens. The immunomodulatory polynucleotide modulates an immune
CC	response, or increases interferon-gamma; or interferon-alpha; effectively
CC	stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
CC	omega and IFN-gamma, production from human cells; effectively stimulates
CC	B cells to proliferate; and activates plasmacytoid dendritic cells to
CC	undergo maturation which can result in retardation of plasmacytoid
CC	dendritic cell apoptosis in culture. This polynucleotide sequence
CC	represents an immunomodulatory polynucleotide of the invention.
XX	
XX	Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
XX	
XX	Query Match 100.0%; Score 21; DB 13; Length 21;
XX	Best Local Similarity 100.0%; Pred. No. 0.37; Mismatches 0; Indels 0; Gaps 0;
XX	Matches 21; Conservative 0;
QY	1 TCGTCGAACGTTTCGAGATGAT 21
DB	1 TCGTCGAACGTTTCGAGATGAT 21
XX	
XX	RESULT 17
XX	ADQ16893
XX	ID ADQ16893 standard; DNA; 21 BP.
XX	AC ADQ16893;
XX	AC
XX	XX
DT	07-OCT-2004 (first entry)
XX	XX
XX	Immunomodulatory polynucleotide, SEQ ID NO 187.
XX	
KW	Immunomodulatory polynucleotide; IMP; palindromic sequence; dinucleotide;
KW	trinucleotide; antimicrobial; antiallergic; antiasthmatic;
KW	dermatological; antinflammatory; ophthalmological; immunosuppressive;
KW	antibacterial; vasotropic; antiparasitic; virucide; hepatotropic;
KW	anti-HIV; cytostatic; antiulcer; nephrotropic; IgE-related disorder;
KW	T helper; (TH)2-type immune response; vaccine; prophylactic; immune;
KW	interferon-gamma; interferon-alpha; type I interferon; IFN-alpha;
KW	IFN-omega; IFN-gamma; plasmacytoid dendritic cell; ss.
XX	
OS	Unidentified.
XX	XX
XX	WO2004058179-A2.
PN	XX
PD	15-JUL-2004.
XX	
XX	18-DEC-2003; 2003WO-US041001.
XX	
XX	23-DEC-2002; 2002US-0436122P.
XX	13-FEB-2003; 2003US-0447885P.
PR	01-MAY-2003; 2003US-0467546P.
XX	
XX	(DYNA-) DYNAXX TECHNOLOGIES.
PA	XX
PI	Dina D, Fearon KL, Marshall J;
PI	XX
DR	WPI; 2004-525782/50.
XX	
XX	Immunomodulatory polynucleotide useful for the treatment of e.g. atopic
PT	dermatitis comprises palindromic sequence comprising at least eight bases
PT	in length, which contains at least two dinucleotides and at least one
PT	trinucleotide.
XX	
XX	Example 1; SEQ ID NO 187; 119pp; English.
XX	
CC	The invention relates to a novel immunomodulatory polynucleotide (IMP)
CC	comprising a palindromic sequence. The palindromic sequence comprises at
CC	least 8 bases in length, which contains at least two dinucleotides (CG),
CC	and at least one trinucleotide (TCG) at or near the 5' end of the
CC	polynucleotide. The CG dinucleotides are separated by 0 - 5 bases. The 5'
CC	T of the (TCG) is positioned 0 - 3 bases from the 5' end of the

polynucleotide. The (TCG)y is separated from the 5' end of the
palindromic sequence by 0 - 2 bases. The palindromic sequence includes
all or part of the (TCG)y sequence, where y= 1 or 2. The immunomodulatory
polynucleotides have the following activities: antimicrobial,
antiallergic, antiasthmatic, dermatological, antiinflammatory,
ophthalmological, immunosuppressive, antibacterial, vasotropic,
antiparasitic, virucide, hepatotropic, anti-HIV, cytostatic, antiulcer,
and nephrotropic. The immunomodulatory polynucleotides can be used for
ameliorating a symptom of an infectious disease and IgE-related disorder.
The IMP's may also be used for the treatment of a disorder associated
with a T helper (TH)2-type immune response (e.g. allergies, allergy-
induced asthma or atopic dermatitis), individuals receiving vaccines such
as therapeutic vaccines (e.g. vaccines comprising an allergy epitope, a
mycobacterial epitope or a tumour associated epitope) or prophylactic
vaccines. The IMP's can also be used for the treatment of e.g. food
allergies, rhinitis, atopic dermatitis, conjunctivitis, urticaria, shock,
Hymenoptera sting allergies and drug allergies and parasitic infections;
viral disease e.g. Hepatitis B, Hepatitis C, Influenza, Acquired
immunodeficiency syndrome (AIDS) and Herpes zoster; and cancer;
inflammatory disorder e.g. ulcerative colitis; fibrotic disorder e.g.
idiopathic pulmonary fibrosis, scleroderma, cutaneous radiation-induced
fibrosis, hepatic fibrosis including schistosomiasis-induced hepatic
fibrosis, renal fibrosis. The IMP's may also be used to create a
prophylactic vaccine to increase resistance to infection by bacterial or
viral pathogens. The immunomodulatory polynucleotide modulates an immune
response; or increases interferon-gamma, or interferon-alpha; effectively
stimulates cytokines including type I interferons e.g. IFN-alpha and IFN-
omega and IFN-gamma, production from human cells; effectively stimulates
B cells to proliferate; and activates plasmacytoid dendritic cells to
undergo maturation which can result in retardation of plasmacytoid
dendritic cell apoptosis in culture. This polynucleotide sequence
represents an immunomodulatory polynucleotide of the invention.

SQ Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 13; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
| | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGAACGTTTCGAGATGAT 21

Search completed: March 30, 2005, 14:03:31
Job time : 427 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 30, 2005, 10:06:13 ; Search time 75 Seconds
(without alignments)
458.157 Million cell updates/sec

Title: US-10-033-243-132

Perfect score: 21

Sequence: 1 tcgtcgacgttcgagatgat 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 8181359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

- 1: /cgm2_6/ptodata/1/ina/5A COMB.seq:*
- 2: /cgm2_6/ptodata/1/ina/5B COMB.seq:*
- 3: /cgm2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgm2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgm2_6/ptodata/1/ina/PTCUS COMB.seq:*
- 6: /cgm2_6/ptodata/1/ina/backfiles.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	16.4	78.1	23	4	US-09-296-477-4
C 2	16.2	77.1	3135	4	US-09-107-532A-1575
C 3	15.4	73.3	816	3	US-08-776-251-10
C 4	15.4	73.3	816	3	US-08-776-251-10
C 5	15.4	73.3	1900	4	US-09-555-000-1
C 6	15.4	73.3	100990	4	US-09-409-800B-2
C 7	15.2	72.4	342	4	US-09-134-000C-2551
C 8	15.2	72.4	1938	4	US-09-710-279-2983
C 9	15.2	72.4	3097	4	US-09-710-279-3781
C 10	15.2	72.4	3188	4	US-09-710-279-3837
C 11	15.2	72.4	3594	4	US-09-710-279-3803
C 12	15.2	72.4	3641	4	US-09-710-279-3851
C 13	15.2	72.4	3707	4	US-09-949-016-3912
C 14	15.2	72.4	4506	4	US-09-710-279-2849
C 15	15.2	72.4	4590	3	US-09-134-001C-1108
C 16	15	71.4	22	4	US-09-235-742-19
C 17	15	71.4	22	4	US-09-347-343-32
C 18	15	71.4	22	4	US-09-820-484-1
C 19	15	71.4	22	4	US-09-820-484-3
C 20	15	71.4	22	4	US-09-774-403A-1
C 21	15	71.4	22	4	US-09-296-477-1
C 22	15	71.4	22	4	US-09-296-477-2
C 23	15	71.4	22	4	US-09-296-477-5
C 24	15	71.4	22	4	US-09-308-036A-1
C 25	15	71.4	22	4	US-09-791-500-1
C 26	15	71.4	22	4	US-09-565-906-2
C 27	14.8	70.5	813	4	US-09-107-532A-1566

28	14.8	70.5	1069	4	US-09-374-174B-1	Sequence 1, Appli
29	14.8	70.5	1497	4	US-09-252-991A-2256	Sequence 2556, Ap
C 30	14.8	70.5	1950	4	US-09-252-991A-2425	Sequence 2425, Ap
31	14.8	70.5	2799	1	US-08-446-794A-5	Sequence 5, Appli
32	14.8	70.5	2799	1	US-08-750-007-4	Sequence 4, Appli
33	14.6	69.5	424	4	US-09-621-976-12664	Sequence 13664, A
34	14.6	69.5	3468	3	US-09-221-017B-893	Sequence 893, App
35	14.6	69.5	144362	4	US-09-949-016-16066	Sequence 16066, A
C 36	14.4	68.6	77	1	US-08-399-412A-58	Sequence 58, Appl
C 37	14.4	68.6	209	4	US-09-270-767-9743	Sequence 9743, Ap
C 38	14.4	68.6	209	4	US-09-270-767-25025	Sequence 25025, A
39	14.4	68.6	601	4	US-09-949-016-142803	Sequence 142803,
40	14.4	68.6	1737	4	US-09-470-667-3	Sequence 3, Appli
41	14.4	68.6	1740	4	US-09-470-667-4	Sequence 1, Appli
42	14.4	68.6	1740	4	US-09-470-667-4	Sequence 4, Appli
43	14.4	68.6	80411	4	US-09-949-016-15777	Sequence 15777, A
44	14.2	67.6	77	1	US-08-447-169A-36	Sequence 36, Appl
45	14.2	67.6	77	2	US-08-233-012C-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-09-296-477-4/c
; Sequence 4, Application US/09296477A
; Patent No. 6589940
; GENERAL INFORMATION:
; APPLICANT: RAZ, E.
; APPLICANT: SCHWARTZ, D.
; APPLICANT: ROMAN, M.
; APPLICANT: DIANA, D.
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGONUCLEOTIDES,
; TITLE OF INVENTION: COMPOSITIONS THEREOF AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 37782000420
; CURRENT APPLICATION NUMBER: US/09/296,477A
; CURRENT FILING DATE: 1999-04-22
; EARLIER APPLICATION NUMBER: 09/092,329
; EARLIER FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: 60/048,793
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-09-296-477-4

Query Match 78.1%; Score 16.4; DB 4; Length 23;
Best Local Similarity 94.4%; Pred. No. 17;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 3 GTCGACGTTTCGAGATGA 20
|||
Db 18 GTGGAACGTTTCGAGATGA 1

RESULT 2
US-09-107-532A-1575/c
; Sequence 1575, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street

;; CITY: Waltham
;; STATE: Massachusetts
;; COUNTRY: USA
;; ZIP: 02354
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: CD-ROM ISO9660
;; COMPUTER: PC
;; OPERATING SYSTEM: <Unknown>
;; SOFTWARE: ASCII
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/107,532A
;; FILING DATE: 30-Jun-1998
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 60/085,598
;; FILING DATE: 14 May 1998
;; APPLICATION NUMBER: 60/051571
;; FILING DATE: July 2, 1997
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Ariniello, Pamela Deneke
;; REGISTRATION NUMBER: 40,489
;; REFERENCE/DOCKET NUMBER: GTC-012
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (781)893-5007
;; TELEFAX: (781)893-8277
;;
;; INFORMATION FOR SEQ ID NO: 1575:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 3135 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: double
;; TOPOLOGY: circular
;; MOLECULE TYPE: DNA (genomic)
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;;
;; ORIGINAL SOURCE:
;; ORGANISM: Enterococcus faecium
;;
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (8) LOCATION 1...3135
;; SEQUENCE DESCRIPTION: SEQ ID NO: 1575:
US-09-107-532A-1575

Query Match 77.1%; Score 16.2; DB 4; Length 3135;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TCGTGAACGTTTCGAGATGAT 21
||| ||||| ||||| |||||
DB 2725 TCGTTAAACGTTGGAGATGAT 2705

RESULT 3
US-08-776-251-10
; Sequence 10, Application US/08776251
; Patent No. 6025340
; GENERAL INFORMATION:
; APPLICANT: Springer, Caroline J
; APPLICANT: Marais, Richard
; TITLE OF INVENTION: Surface expression of enzyme in gene directed prodrgng therapy
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye
; STREET: 1100 No. 6025340th Glebe Road, 8th Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/776,251
; FILING DATE: 31-JAN-1997

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: PCT/GB95/01782
;; FILING DATE: 27-JUL-1995
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: GB 9415167.7
;; FILING DATE: 27-JUL-1994
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Arthur R. Crawford
;; REGISTRATION NUMBER: 25,327
;; REFERENCE/DOCKET NUMBER: 620-20
;; INFORMATION FOR SEQ ID NO: 10:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 816 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
US-08-776-251-10

Query Match 73.3%; Score 15.4; DB 3; Length 816;
Best Local Similarity 94.1%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCGAACGTTTCGAGATGA 20
||||| ||||| ||||| |||||
DB 619 TCGAACGTTTCGAGACGA 635

RESULT 4
US-08-776-251-10/c
; Sequence 10, Application US/08776251
; Patent No. 6025340
; GENERAL INFORMATION:
; APPLICANT: Springer, Caroline J
; APPLICANT: Marais, Richard
; TITLE OF INVENTION: Surface expression of enzyme in gene directed prodrgng therapy
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye
; STREET: 1100 No. 6025340th Glebe Road, 8th Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/776,251
; FILING DATE: 31-JAN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB95/01782
; FILING DATE: 27-JUL-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9415167.7
; FILING DATE: 27-JUL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Arthur R. Crawford
; REGISTRATION NUMBER: 25,327
; REFERENCE/DOCKET NUMBER: 620-20
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 816 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-776-251-10

Query Match 73.3%; Score 15.4; DB 3; Length 816;
Best Local Similarity 94.1%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCGAACGTTTCGAGATGA 20
|||||
Db 630 TCGAACGTTTCGAGACGA 614

RESULT 5
US-09-555-000-1/c
; Sequence 1, Application US/09555000
; Patent No. 6489108
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Processes from Gram Positive Organisms
; FILE REFERENCE: GC390-PCT
; CURRENT APPLICATION NUMBER: US/09/555,000
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: PCT/US98/26971
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1900
; TYPE: DNA
; ORGANISM: Bacillus subtilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (134)...(1774)
US-09-555-000-1

Query Match 73.3%; Score 15.4; DB 4; Length 1900;
Best Local Similarity 94.1%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5 CGAACGTTTCGAGATGAT 21
|||||
Db 1119 CGAACGTTTCGAGATGAT 1103

RESULT 6
US-09-409-800B-2
; Sequence 2, Application US/09409800B
; Patent No. 6706522
; GENERAL INFORMATION:
; APPLICANT: Blattner, Frederick R.
; APPLICANT: Burland, Valerie
; APPLICANT: Rose, Debra J.
; APPLICANT: Mayhew, George F.
; APPLICANT: Perna, Nicole
; APPLICANT: Perry, Robert D.
; APPLICANT: Straley, Susan C.
; APPLICANT: Fetherston, Jacqueline D.
; APPLICANT: Lindler, Luther E.
; APPLICANT: Plano, Gregory V.
; TITLE OF INVENTION: Plasmid DNA From Yersinia Pestis
; FILE REFERENCE: 960296.95939
; CURRENT APPLICATION NUMBER: US/09/409,800B
; CURRENT FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 100990
; TYPE: DNA
; ORGANISM: Yersinia pestis
US-09-409-800B-2

Query Match 73.3%; Score 15.4; DB 4; Length 100990;
Best Local Similarity 94.1%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCGAACGTTTCGAGATGA 20
|||||
Db 91915 TCGAACGTTTCGAGATGA 91931

RESULT 7
US-09-134-000C-2551
; Sequence 2551, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2551
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-134-000C-2551

Query Match 72.4%; Score 15.2; DB 4; Length 342;
Best Local Similarity 85.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGA 20
|||||
Db 31 TCGTCGAACGTTTCGATGA 50

RESULT 8
US-09-710-279-2983/c
; Sequence 2983, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2983
; LENGTH: 1938
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-2983

Query Match 72.4%; Score 15.2; DB 4; Length 1938;
Best Local Similarity 85.0%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 945 CGTCGAACGTTGAAGAAGAT 926

RESULT 9
US-09-710-279-3781/c
; Sequence 3781, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09

; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3781
; LENGTH: 3097
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3781

Query Match 72.4%; Score 15.2; DB 4; Length 3097;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 111 CGTCGAACGTTGAAGAAGAT 92

RESULT 10

US-09-710-279-3837
; Sequence 3837, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3837
; LENGTH: 3188
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3837

Query Match 72.4%; Score 15.2; DB 4; Length 3188;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 292 CGTCGAACGTTGAAGAAGAT 311

RESULT 11

US-09-710-279-3803
; Sequence 3803, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3803
; LENGTH: 3594
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3803

Query Match 72.4%; Score 15.2; DB 4; Length 3594;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 2100 CGTCGAACGTTGAAGAAGAT 2119

RESULT 12

US-09-710-279-3851/c
; Sequence 3851, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3851
; LENGTH: 3641
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3851

Query Match 72.4%; Score 15.2; DB 4; Length 3641;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTTTCGAGATGAT 21
|||||
Db 1563 CGTCGAACGTTGAAGAAGAT 1544

RESULT 13

US-09-949-016-3912/c
; Sequence 3912, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3912
; LENGTH: 3707
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3912

Query Match 72.4%; Score 15.2; DB 4; Length 3707;
Best Local Similarity 85.0%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 30, 2005, 10:45:07 ; Search time 3117 Seconds
(without alignments)
256.448 Million cell updates/sec

Title: US-10-033-243-132

Perfect score: 21

Sequence: 1 tcgtcgaaacttcgagatgat 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST.*

1: gb_est1.*

2: gb_est2.*

3: gb_hic.*

4: gb_est3.*

5: gb_est4.*

6: gb_est5.*

7: gb_est6.*

8: gb_gss1.*

9: gb_gss2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	87.6	802	9	CNS04SNV
2	17.8	84.8	302	6	CD182992
3	17.8	84.8	441	6	CD156376
4	17.8	84.8	586	6	CD124255
5	17.8	84.8	785	7	CF434519
6	16.8	80.0	221	6	CD572389
7	16.8	80.0	382	7	CV043005
8	16.8	80.0	461	6	CA707068
9	16.8	80.0	587	6	CA827269
10	16.8	80.0	595	8	BH387860
11	16.8	80.0	1410	2	BS052250
12	16.4	78.1	303	2	AW710594
13	16.4	78.1	424	5	BW170465
14	16.4	78.1	439	4	BI515898
15	16.4	78.1	445	5	BW300285
16	16.4	78.1	457	5	BP018564
17	16.4	78.1	504	8	B29433
18	16.4	78.1	511	4	BI514876
19	16.4	78.1	511	4	BI514893
20	16.4	78.1	570	5	BP539000
21	16.4	78.1	635	5	BW118728
22	16.4	78.1	650	1	AV902415
23	16.4	78.1	662	5	BW174317
24	16.4	78.1	663	5	BW171245

25	16.4	78.1	666	5	BW414321
26	16.4	78.1	707	5	BW297679
27	16.4	78.1	709	5	BW303599
28	16.4	78.1	711	5	BW461330
29	16.4	78.1	726	5	BW174467
30	16.4	78.1	727	5	BW437262
31	16.4	78.1	767	5	BW502366
32	16.4	78.1	914	9	CNS04A00
33	16.4	78.1	941	7	CO013173
34	16.4	78.1	1197	9	AG427158
35	16.4	78.1	1660	9	AG430921
36	16.4	78.1	1666	6	CA196886
37	16.2	77.1	273	4	BG931701
38	16.2	77.1	314	6	CD190559
39	16.2	77.1	315	6	CD183371
40	16.2	77.1	328	4	BI075646
41	16.2	77.1	329	6	CD177754
42	16.2	77.1	342	6	CD092357
43	16.2	77.1	352	7	CN141822
44	16.2	77.1	370	9	CL728886
45	16.2	77.1	371	7	CN135967

ALIGNMENTS

RESULT 1	CNS04SNV	802 bp	DNA	linear	GSS 01-SEP-2000
LOCUS	Tetraodon nigroviridis genome survey sequence 17 end of clone				
DEFINITION	007J10 of library H from Tetraodon nigroviridis, genomic survey sequence.				
ACCESSION	AL305428.1				
VERSION	GI:8197678				
KEYWORDS	GSS; genome survey sequence.				
SOURCE	Tetraodon nigroviridis				
ORGANISM	Tetraodon nigroviridis				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontoidea; Tetraodontidae; Tetraodon.				
AUTHORS	Roest Crolius,H., Jaillon,O., Dasilva,C., Bouneau,L., Fisher,C., Bernot,A., Fizames,C., Wincker,P., Brottier,P., Quetier,F., Saurin,W. and Weissbach,J.				
TITLE	Estimate of human gene number provided by genome-wide analysis using Tetraodon nigroviridis DNA sequence				
JOURNAL	Nat. Genet. 25 (2), 235-238 (2000)				
MEDLINE	20296633				
PUBMED	10835645				
REFERENCE	2				
AUTHORS	Roest Crolius,H., Jaillon,O., Dasilva,C., Ozouf-Costaz,C., Fizames,C., Fischer,C., Bouneau,L., Billault,A., Quetier,F., Saurin,W., Bernot,A. and Weissbach,J.				
TITLE	Characterization and repeat analysis of the compact genome of the freshwater pufferfish Tetraodon nigroviridis				
JOURNAL	Genome Res. 10 (7), 939-949 (2000)				
MEDLINE	20359837				
PUBMED	10899143				
REFERENCE	3 (bases 1 to 802)				
AUTHORS	Genoscope.				
TITLE	Direct Submission				
JOURNAL	Submitted (12-APR-2000) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : secref@genoscope.cns.fr)				
COMMENT	- Web : www.genoscope.cns.fr This sequence is a single read and was generated as part of a large scale clone-and-sequencing project of the Tetraodon nigroviridis genome. For more information, please take a look at http://www.genoscope.cns.fr/Tetraodon .				
FEATURES	Location/Qualifiers				
source	1..802				
	/organism="Tetraodon nigroviridis"				
	/mol_type="genomic DNA"				

/db_xref="taxon:99883"
 /clone="007J10"
 /clone_lib="H"
 /note="Genoscope sequence ID : COBH007D805XD1-end : T7"

ORIGIN

Query Match 87.6%; Score 18.4; DB 9; Length 802;
 Best Local Similarity 95.0%; Pred. No. 30;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CGTCGAACGTCGAGATGAT 21

Db 623 CGTCGAACGTCGAGATGAT 642

RESULT 2

CD182992

LOCUS

DEFINITION MS1-0037T-D120-A09-U.G MS1-0037 Schistosoma mansoni cDNA clone

ACCESSION CD182992

VERSION CD182992.1 GI:34713214

KEYWORDS EST.

SOURCE Schistosoma mansoni

ORGANISM Schistosoma mansoni

REFERENCE 1 (bases 1 to 302)

AUTHORS Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigeidida; Schistosomatidae; Schistosomatidae; Schistosoma.

Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M., Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr., Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.F., Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L., Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A., Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A., Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T., Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M., Setubal, J.C., Leite, L.C.C. and Dias-Neto, E.
 Transcription analysis of the acoelomate human parasite Schistosoma mansoni

Nat. Genet. 35 (2), 148-157 (2003)

22879926

12973350

COMMENT

Contact: Dr. Sergio Verjovski-Almeida

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Fax: +55-11-3091-2186

Email: verjovski@usp.br

This sequence was derived from the FAPESP Schistosoma mansoni EST Genome Project. All sequences in the project were assembled and annotated. This entry and all the assembled sequences can be seen in the following URL http://bioinfo.iq.usp.br/schisto/
 Plate: MS1-0037T-D120 row: 9 column: A.

FEATURES

source

1..302
 Location/Qualifiers
 /organism="Schistosoma mansoni"
 /mol_type="mRNA"
 /db_xref="taxon:6183"
 /clone="MS1-0037T-D120-A09.G"
 /sex="mixed pool"
 /dev_stage="schistosomulum"
 /lab_host="in vitro culture"
 /clone_lib="MS1-0037"
 /note="Vector: pGEM T-easy"

ORIGIN

Query Match 84.8%; Score 17.8; DB 6; Length 302;
 Best Local Similarity 90.5%; Pred. No. 58;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTCGAGATGAT 21

Db 19 TCGTCGAACGTTTGTGATGAT 39

RESULT 3

CD156376/c

LOCUS

DEFINITION ML1-0046T-M209-C11-U.G ML1-0046 Schistosoma mansoni cDNA clone

ACCESSION CD156376

VERSION CD156376.1 GI:34693161

KEYWORDS EST.

SOURCE Schistosoma mansoni

ORGANISM Schistosoma mansoni

REFERENCE 1 (bases 1 to 441)

AUTHORS Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigeidida; Schistosomatidae; Schistosomatidae; Schistosoma.

Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M., Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr., Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.F., Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L., Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A., Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A., Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T., Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M., Setubal, J.C., Leite, L.C.C. and Dias-Neto, E.
 Transcription analysis of the acoelomate human parasite Schistosoma mansoni

Nat. Genet. 35 (2), 148-157 (2003)

22879926

12973350

COMMENT

Contact: Dr. Sergio Verjovski-Almeida

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Tel: +55-11-3091-2173

Fax: +55-11-3091-2186

Email: verjovski@usp.br

This sequence was derived from the FAPESP Schistosoma mansoni EST Genome Project. All sequences in the project were assembled and annotated. This entry and all the assembled sequences can be seen in the following URL http://bioinfo.iq.usp.br/schisto/
 Plate: ML1-0046T-M209 row: 11 column: C.

Location/Qualifiers

1..441
 /organism="Schistosoma mansoni"
 /mol_type="mRNA"
 /db_xref="taxon:6183"
 /clone="ML1-0046T-M209-C11.G"
 /sex="mixed pool"
 /dev_stage="miracidium"
 /clone_lib="ML1-0046"
 /note="Vector: pGEM T-easy"

Query Match 84.8%; Score 17.8; DB 6; Length 441;
 Best Local Similarity 90.5%; Pred. No. 61;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTCGAGATGAT 21

Db 376 TCGTCGAACGTTTGTGATGAT 356

RESULT 4

CD124255

LOCUS

DEFINITION ME1-0086G-A185-H02-U.B ME1-0086 Schistosoma mansoni cDNA clone

ACCESSION CD124255

VERSION CD124255.1 GI:34662288

KEYWORDS EST.

SOURCE Schistosoma mansoni
ORGANISM Schistosoma mansoni
Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigoida; Schistosomatoidea; Schistosomatidae; Schistosoma.

REFERENCE 1 (bases 1 to 586)
AUTHORS Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M., Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr., Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.P., Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L., Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A., Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A., Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T., Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M., Secubal, J.C., Leite, L.C.C. and Dias-Neto, E.

TITLE Transcriptome analysis of the acoelomate human parasite Schistosoma mansoni

JOURNAL Nat. Genet. 35 (2), 148-157 (2003)
MEDLINE 22879926
PUBMED 12973350

COMMENT Contact: Dr. Sergio Verjovski-Almeida
Departamento de Bioquímica
Instituto de Química - Universidade de São Paulo
Av. Prof. Lineu Prestes 748 sala 1200, 05508-900 São Paulo - SP, Brasil
Tel: +55-11-3091-2173
Fax: +55-11-3091-2186
Email: verjoe@iq.usp.br

This sequence was derived from the PAPESP Schistosoma mansoni EST Genome Project. All sequences in the project were assembled and annotated. This entry and all the assembled sequences can be seen in the following URL <http://bioinfo.iq.usp.br/schisto/>

Plate: ME1-0086G-A185 row: 2 column: H.

FEATURES
source
Location/Qualifiers
1..586
/organism="Schistosoma mansoni"
/mol_type="mRNA"
/db_xref="taxon:6183"
/clone="ME1-0086G-A185-H02.B"
/sex="mixed pool"
/dev_stage="egg"
/lab_host="Mus musculus"
/clone_lib="ME1-0086"
/note="Vector: pGEM T-easy"

ORIGIN
Query Match 84.8%; Score 17.8; DB 6; Length 586;
Best Local Similarity 90.5%; Pred. No. 63;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
|||||
Db 373 TCGTCGAACGTTTCGAGATGAT 393
|||||

RESULT 5
CF434519/c
LOCUS CF434519.1 785 bp mRNA linear EST 04-SEP-2003
DEFINITION EST670864 normalized cDNA library of onion Allium cepa cDNA clone ACAAA82, mRNA sequence.

ACCESSION CF434519
VERSION CF434519.1 GI:34457209
KEYWORDS EST.
SOURCE Allium cepa (onion)
ORGANISM Allium cepa
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Alliaceae; Allium.

REFERENCE 1 (bases 1 to 785)
AUTHORS Havery, M.J., Cheung, F., Van Aken, S., Utterback, T. and Town, C.D.
TITLE Expressed Sequence Tags from a normalized library of mixed onion tissues (Allium cepa)
JOURNAL Unpublished (2003)
COMMENT Contact: Havery MJ

Department of Horticulture
USDA-ARS and University of Wisconsin
1575 Linden Drive, Madison, WI 53706, USA
Tel: 608-262-1830
Fax: 608-262-4743
Email: mjhavey@facstaff.wisc.edu
TIGR sequence name ACAAA82TR. For more information:
<http://haveylab.hort.wisc.edu>
Seq primer: CAG GAA ACA GCT ATG ACC.
Location/Qualifiers
1..785
/organism="Allium cepa"
/mol_type="mRNA"
/cultivar="Red Creole (bulbs), unknown (callus), Ebano & Texas Legend (roots)"
/db_xref="taxon:4679"
/clone="ACAA82"
/tissue_type="Callus, roots, and young bulbe"
/clone_lib="normalized cDNA library of onion"
/notes="vector: pCMVSPORT6.1-ccdb (Invitrogen); Site 1: EcoRV (5'); Site 2: NotI (3'); Equal molar amounts of mRNA from callus, roots, and young bulbs were combined to synthesize the library. Normalization to enrich for low-copy transcripts was performed by proprietary techniques of Invitrogen."

ORIGIN
Query Match 84.8%; Score 17.8; DB 7; Length 785;
Best Local Similarity 90.5%; Pred. No. 65;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATGAT 21
|||||
Db 65 TTGTCGATCGTTTCGAGATGAT 45
|||||

RESULT 6
CD572389
LOCUS CD572389.1 221 bp mRNA linear EST 12-JUN-2003
DEFINITION PBL 20 H02 Porcine Brain Library Sus scrofa cDNA clone PBL 5', mRNA sequence.

ACCESSION CD572389
VERSION CD572389.1 GI:31663456
KEYWORDS EST.
SOURCE Sus scrofa (pig)
ORGANISM Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
Nobis, W., Ren, X., Suchyta, S.P., Suchyta, T.R., Zanella, A.J. and Coussens, P.M.

REFERENCE 1 (bases 1 to 221)
AUTHORS Development of a porcine brain cDNA library, EST database and microarray resource

TITLE Physiol. Genomics 16 (1), 153-159 (2003)
JOURNAL Contact: Paul Coussens
COMMENT Michigan State University
1205H Anthony Hall, East Lansing, MI 48824, USA
Email: coussens@msu.edu
Seq primer: M13
Location/Qualifiers
1..221
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
/clone="PBL"
/sex="male and female"
/tissue_type="Brain and central nervous system"
/dev_stage="fetal, 10-day, 21-day, 5-week, mature boar, post-pubertal gilt, lactating sow"
/clone_lib="Porcine Brain Library"
/notes="Porcine (Pig) brain library includes pre-frontal cortex, frontal cortex, hippocampus, hypothalamus, parietal cortex, amygdala, cerebellum, spinal cord, eye,

[illegible]

```

/mol_type="mRNA"
/db_xref="dbEST:3524_1_56_1_G06.Y_1"
/db_xref="taxon:4577"
/clone_lib="1114 - Unigene IV from Maize Genome Project"
/note="This library represents the unique genes found in
the fourth round of EST sequencing at Stanford University
for the maize genome project. Sequences are present from
libraries 1091 and 3524. Contigs were assembled using
ZmDBAssembler and 2 representatives from each contig were
selected for the Unigene set. All singlets were also
selected."

```

ORIGIN

```

Query Match      80.0%; Score 16.8; DB 6; Length 587;
Best Local Similarity 90.0%; Pred. No. 2.3e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

Qy 1 TCGTCGAACGTTCCGAGATGA 20

Db 30 TCGTCCAGCGTTCCGAGATGA 49

RESULT 10

```

BH387860/c
LOCUS      BH387860      595 bp      DNA      linear      GSS 11-DEC-2001
DEFINITION AG-ND-129F22.TF ND-TAM Anopheles gambiae genomic clone
VERSION    BH387860
KEYWORDS   BH387860.1 GI:17334001
SOURCE     GSS.
ORGANISM   Anopheles gambiae (African malaria mosquito)

```

Other GSSs: AG-ND-129F22.TR

```

Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0208
Fax: 301 838 3543
Email: bjlloftus@tigr.org
This clone is from an A. gambiae BAC library (ND-TAM) provided by
F.H. Collins and sequenced by The Institute for Genomic Research
(TIGR). The BAC library was generated from A. gambiae PEST strain
DNA. All DNA was extracted from newly hatched first instar larvae
to minimize the inclusion of DNA from microorganisms that inhabit
the gut. The DNA is derived from mixed sexes of larvae. The BAC
library was constructed at Texas A&M University BAC Center
University, College Station, Texas 77843-2123, USA using a HindIII
partial digest.
Seq primer: M13 For
Class: BAC ends.

```

REFERENCE

```

AUTHORS    Hong, Y.S., Hogan, J.R., Wang, X., Sarkar, A., Sim, C., Loftus, B.J.,
            Ren, C., Huff, E.R., Carlile, J.D., Black, K., Zhang, H.-B.,
            Gardner, M.J. and Collins, F.H.

```

```

TITLE       Construction of a BAC library and generation of BAC end
            sequence-tagged connectors for genome sequencing of the African
            malaria mosquito Anopheles gambiae

```

Mol. Genet. Genomics 288 (6), 720-728 (2003)

JOURNAL

MEDLINE

PUBMED

COMMENT

```

Other GSSs: AG-ND-129F22.TR
Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0208
Fax: 301 838 3543
Email: bjlloftus@tigr.org

```

```

This clone is from an A. gambiae BAC library (ND-TAM) provided by
F.H. Collins and sequenced by The Institute for Genomic Research
(TIGR). The BAC library was generated from A. gambiae PEST strain
DNA. All DNA was extracted from newly hatched first instar larvae
to minimize the inclusion of DNA from microorganisms that inhabit
the gut. The DNA is derived from mixed sexes of larvae. The BAC
library was constructed at Texas A&M University BAC Center
University, College Station, Texas 77843-2123, USA using a HindIII
partial digest.
Seq primer: M13 For
Class: BAC ends.

```

FEATURES

source

1. .595

/organism="Anopheles gambiae"

/mol_type="genomic DNA"

/strain="PEST"

/db_xref="taxon:7165"

/clone="AG-ND-129F22"

/note="Vector: pSCBAC1; Site_1: HindIII"

ORIGIN

```

Query Match      80.0%; Score 16.8; DB 8; Length 595;
Best Local Similarity 90.0%; Pred. No. 2.3e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

Qy 1 TCGTCGAACGTTCCGAGATGA 20

Db 177 TCGTGAACGTTCCGAGATGA 158

RESULT 11

BE052250

LOCUS

```

DEFINITION  BE052250      1410 bp      mRNA      linear      EST 08-MAR-2001
            GA_Ea0035L13f Gossypium arboreum 7-10 dpa fiber library Gossypium
            arboreum cDNA clone GA_Ea0035L13f, mRNA sequence.

```

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

```

Gossypium arboreum
Gossypium arboreum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosids; eurosoids II; Malvales; Malvaceae; Malvoideae; Gossypium.

```

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

CONTACT

UNPUBLISHED (2000)

Clemson University

Genomics Institute

Clemson University

100 Jordan Hall, Clemson, SC 29634, USA

Tel: 864 656 7288

Fax: 864 656 4293

Email: rwing@clemson.edu

Seq primer: TAAATACGACTCACTATAGGG

High quality sequence start: 13

High quality sequence stop: 501.

Location/Qualifiers

1. .1410

/organism="Gossypium arboreum"

/mol_type="mRNA"

/strain="AKA"

/cultivar="8400"

/db_xref="taxon:29729"

/clone="GA_Ea0035L13f"

/tissue_type="Fibers isolated from bolls harvested 7-10

dpa"

/lab_host="E. coli"

/clone_lib="Gossypium arboreum 7-10 dpa fiber library"

/note="Vector: pBK-CMV; Site_1: EcoRI; Site_2: XhoI"

ORIGIN

```

Query Match      80.0%; Score 16.8; DB 2; Length 1410;
Best Local Similarity 90.0%; Pred. No. 2.5e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

Qy 1 TCGTCGAACGTTCCGAGATGA 20

Db 1356 TCGTGAACGAGCGAGATGA 1375

RESULT 12

AW710594/c

LOCUS

DEFINITION

AW710594

e4h01ne.r1 Neurospora crassa evening cDNA library Neurospora crassa

cDNA clone e4h01ne 3', mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

EST.

Neurospora crassa

```

ORGANISM Neurospora crassa
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
REFERENCE 1 (bases 1 to 303)
AUTHORS Zhu, H., Lai, H., Kupfer, D., Dunlap, J.C. and Roe, B.A.
TITLE Two Neurospora crassa EST Databases
JOURNAL Unpublished (1998)
COMMENT Other ESTs: e4h01ne.f1
Contact: Bruce A. Roe, University of Oklahoma, broe@ou.edu
Department of Chemistry and Biochemistry
Advanced Center for Genome Technology, University of Oklahoma
620 Parrington Oval, Norman, OK 73019, USA
Tel: 405 325 4912
Fax: 405 325 7762
Email: broe@ou.edu
Seq primer: Universal Reverse Primer
High quality sequence stop: 255.
FEATURES
Location/Qualifiers
source
1..303
/organism="Neurospora crassa"
/mol_type="mRNA"
/strain="Strain 30-7 (bd; A)"
/db_xref="taxon:5141"
/clone="e4h01ne"
/tissue_type="tissue harvested following 22hr growth in
dark"
/clone_lib="Neurospora crassa evening cDNA library"
/note="Vector: pBluescript SK-; Site 1: XbaI; Site 2:
EcoRI; See: Bell-Pedersen, D., et al. PNAS 93:13096, 1996.
5', end of cDNA cloned into XbaI site of pBluescript; 3',
end of cDNA cloned into EcoRI site of pBluescript"

ORIGIN
Query Match 78.1%; Score 16.4; DB 2; Length 303;
Best Local Similarity 94.4%; Pred. NO. 3.5e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GTCGACGCTTCGAGATGA 20
|||||
DB 232 GTCGACGCTTCAAGATGA 215

RESULT 13
BW170465
LOCUS BW170465 424 bp mRNA linear EST 04-NOV-2002
DEFINITION BW170465 Nori Satoh unpublished cDNA library, neural complex Ciona
intestinalis cDNA clone rcinc008n07 3', mRNA sequence.
ACCESSION BW170465
VERSION BW170465.1 GI:24560352
KEYWORDS EST.
SOURCE Ciona intestinalis
ORGANISM Ciona intestinalis
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
Phlebobranchia; Cionidae; Ciona.
REFERENCE 1 (bases 1 to 424)
AUTHORS Satou, Y., Shin-i, T., Kohara, Y. and Satoh, N.
TITLE Expressed genes in Ciona intestinalis (2002c)
JOURNAL Unpublished (2002)
COMMENT Contact: Nori Satoh
Department of Zoology
Kyoto University
Sakyo-ku, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-753-4081
Fax: 81-75-705-1113
Email: satohascidian.zool.kyoto-u.ac.jp.
Location/Qualifiers
source
1..424
/organism="Ciona intestinalis"
/mol_type="mRNA"
/db_xref="taxon:7719"
/clone="rcinc008n07"
/tissue_type="neural complex"
/clone_lib="Nori Satoh unpublished cDNA library, neural

ORGANISM Neurospora crassa
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
REFERENCE 1 (bases 1 to 303)
AUTHORS Zhu, H., Lai, H., Kupfer, D., Dunlap, J.C. and Roe, B.A.
TITLE Two Neurospora crassa EST Databases
JOURNAL Unpublished (1998)
COMMENT Other ESTs: e4h01ne.f1
Contact: Bruce A. Roe, University of Oklahoma, broe@ou.edu
Department of Chemistry and Biochemistry
Advanced Center for Genome Technology, University of Oklahoma
620 Parrington Oval, Norman, OK 73019, USA
Tel: 405 325 4912
Fax: 405 325 7762
Email: broe@ou.edu
Seq primer: Universal Reverse Primer
High quality sequence stop: 255.
FEATURES
Location/Qualifiers
source
1..303
/organism="Neurospora crassa"
/mol_type="mRNA"
/strain="Strain 30-7 (bd; A)"
/db_xref="taxon:5141"
/clone="e4h01ne"
/tissue_type="tissue harvested following 22hr growth in
dark"
/clone_lib="Neurospora crassa evening cDNA library"
/note="Vector: pBluescript SK-; Site 1: XbaI; Site 2:
EcoRI; See: Bell-Pedersen, D., et al. PNAS 93:13096, 1996.
5', end of cDNA cloned into XbaI site of pBluescript; 3',
end of cDNA cloned into EcoRI site of pBluescript"

ORIGIN
Query Match 78.1%; Score 16.4; DB 2; Length 303;
Best Local Similarity 94.4%; Pred. NO. 3.5e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GTCGACGCTTCGAGATGA 20
|||||
DB 232 GTCGACGCTTCAAGATGA 215

RESULT 13
BW170465
LOCUS BW170465 424 bp mRNA linear EST 04-NOV-2002
DEFINITION BW170465 Nori Satoh unpublished cDNA library, neural complex Ciona
intestinalis cDNA clone rcinc008n07 3', mRNA sequence.
ACCESSION BW170465
VERSION BW170465.1 GI:24560352
KEYWORDS EST.
SOURCE Ciona intestinalis
ORGANISM Ciona intestinalis
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
Phlebobranchia; Cionidae; Ciona.
REFERENCE 1 (bases 1 to 424)
AUTHORS Satou, Y., Shin-i, T., Kohara, Y. and Satoh, N.
TITLE Expressed genes in Ciona intestinalis (2002c)
JOURNAL Unpublished (2002)
COMMENT Contact: Nori Satoh
Department of Zoology
Kyoto University
Sakyo-ku, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-753-4081
Fax: 81-75-705-1113
Email: satohascidian.zool.kyoto-u.ac.jp.
Location/Qualifiers
source
1..424
/organism="Ciona intestinalis"
/mol_type="mRNA"
/db_xref="taxon:7719"
/clone="rcinc008n07"
/tissue_type="neural complex"
/clone_lib="Nori Satoh unpublished cDNA library, neural

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ORIGIN
Query Match 78.1%; Score 16.4; DB 5; Length 424;
Best Local Similarity 94.4%; Pred. NO. 3.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGAACGTTTCGAGAT 18
|||||
DB 340 TCGTCGAACATTCGAGAT 357
|||||

RESULT 14
BW1515898
LOCUS BW1515898 439 bp mRNA linear EST 08-APR-2002
DEFINITION BW1515898 2002.5 Bee Brain Normalized Library, BB16 Apis mellifera
cDNA clone BB160020B20D02 5', mRNA sequence.
ACCESSION BW1515898
VERSION BW1515898.1 GI:15366272
KEYWORDS EST.
SOURCE Apis mellifera (honey bee)
ORGANISM Apis mellifera
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;
Apidae; Apis.
REFERENCE 1 (bases 1 to 439)
AUTHORS Whitfield, C.W., Band, M.R., Bonaldo, M.F., Kumar, C.G., Liu, L.,
Pardinas, J., Robertson, H.M., Soares, B. and Robinson, G.E.
TITLE Annotated expressed sequence tags and cDNA microarrays for studies
of brain and behavior in the honey bee
JOURNAL Genome Res. 12 (4), 555-566 (2002)
MEDLINE 21929762
PUBMED 11932240
COMMENT Contact: Gene E. Robinson
Department of Entomology
University of Illinois
505 S. Goodwin Ave., Urbana, IL 61801, USA
Tel: 217 265 0309
Fax: 217 244 3499
Email: generobi@life.uiuc.edu
This research was funded by the University of Illinois Critical
Research Initiatives Fund and a Burroughs-Wellcome Trust Innovation
Award in Functional Genomics to G.E. Robinson and an NSF
Postdoctoral Fellowship in Bioinformatics to C.W. Whitfield.
PCR Primers
FORWARD: TATACACCTCACTATAGGG
BACKWARD: ATTACCCCTCACTAAAG
Plate: BB160020B20 row: D column: 02
Seq primer: AGCGATAACAATTTCACACAGGA
High quality sequence stop: 439.
FEATURES
Location/Qualifiers
source
1..439
/organism="Apis mellifera"
/mol_type="mRNA"
/strain="mixed strains of European bees, predominantly
A.m. ligustica"
/db_xref="taxon:7460"
/clone="BB160020B20D02"
/sex="female"
/tissue_type="brain"
/dev stage="adult worker honey bee"
/lab_host="DH10B"
/clone_lib="Bee Brain Normalized Library, BB16"
/note="Organ: brain; Vector: pT73-Pac; Site 1: EcoRI;
Site 2: NotI; The BB16 library was contributed by the
Soares laboratory and it was constructed and normalized
as described by Bonaldo, M.F., Lennon, G. and Soares,
M.B. (1996), Genome Research 6(9): 791-806. RNA was
prepared from dissected brains of adult worker bees of
various ages and various behavioral groups."

ORIGIN
Query Match 78.1%; Score 16.4; DB 4; Length 439;

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Best Local Similarity 94.4%; Pred. No. 3.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCGAACGTTTCGAGATGAT 21
|||||
Db 269 TCGAACGTTTCGAGTTGAT 286

RESULT 15

BW300285/c
LOCUS BW300285 445 bp mRNA linear EST 11-NOV-2002
DEFINITION BW300285 Nori Satoh unpublished cDNA library, neural complex Ciona
intestinalis cDNA clone cinc008n07 5', mRNA sequence.

ACCESSION BW300285

VERSION

KEYWORDS

SOURCE

ORGANISM

Ciona intestinalis
Ciona intestinalis
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
Phlebobranchia; Clonidae; Ciona.

REFERENCE 1 (bases 1 to 445)

AUTHORS Satou, Y., Shin-i, T., Kohara, Y. and Satoh, N.

TITLE Expressed genes in Ciona intestinalis (2002c)

JOURNAL Unpublished (2002)

COMMENT

Contact: Nori Satoh

Department of Zoology

Kyoto University

Sakyo-ku, Kyoto, Kyoto 606-8502, Japan

Tel: 81-75-753-4081

Fax: 81-75-705-1113

Email: satoheascidian.zool.kyoto-u.ac.jp.

FEATURES

source

1..445
Location/Qualifiers
/organism="Ciona intestinalis"
/mol_type="mRNA"
/db_xref="taxon:7719"
/clone="cinc008n07"
/tissue_type="neural complex"
/clone_lib="Nori Satoh unpublished cDNA library, neural
complex"

ORIGIN

Query Match 78.1%; Score 16.4; DB 5; Length 445;
Best Local Similarity 94.4%; Pred. No. 3.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCGTCGACGTTTCGAGAT 18
|||||
Db 80 TCGTCGAACATTCGAGAT 63

Search completed: March 30, 2005, 13:25:56
Job time : 3125 secs

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Result No.	Query #			Description	
	Score	Match	Length	DB	ID
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2	19	90.5	19	10	US-09-927-422A-16
3	19	90.5	19	14	US-10-033-243-19
4	19	90.5	19	16	US-10-176-883-41
5	19	90.5	19	16	US-10-177-826-41
6	19	90.5	19	17	US-10-328-578-41
7	19	90.5	19	18	US-10-623-371-41
8	19	90.5	19	18	US-10-739-518-41
9	19	90.5	22	14	US-10-033-243-30
10	19	90.5	22	16	US-10-176-883-52
11	19	90.5	22	16	US-10-177-826-52
					Sequence 132, Appl
					Sequence 16, Appl
					Sequence 19, Appl
					Sequence 41, Appl
					Sequence 41, Appl
					Sequence 41, Appl
					Sequence 41, Appl
					Sequence 41, Appl
					Sequence 30, Appl
					Sequence 52, Appl
					Sequence 52, Appl

US-09-927-422A-16
; Sequence 16, Application US/09927422A
; Publication No. US20030022852A1
; GENERAL INFORMATION:
; APPLICANT: Van Nest, Gary
; APPLICANT: Tuck, Stephen
; APPLICANT: Fearon, Karen L.
; APPLICANT: Dina, Dino
; TITLE OF INVENTION: BIODEGRADABLE IMMUNOMODULATORY
; TITLE OF INVENTION: FORMULATIONS AND METHODS FOR USE THEREOF
; FILE REFERENCE: 377882001420
; CURRENT APPLICATION NUMBER: US/09/927,422A
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: U.S. 09/802,359
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: U.S. 60/188,30
; PRIOR FILING DATE: 2000-03-10
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polynucleotide containing CG
US-09-927-422A-16

Query Match 90.5%; Score 19; DB 10; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 3
US-10-033-243-19
; Sequence 19, Application US/10033243
; Publication No. US20030049266A1
; GENERAL INFORMATION:
; APPLICANT: FEARON, Karen L.
; APPLICANT: DINA, Dino
; TITLE OF INVENTION: IMMUNOMODULATORY POLYNUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882001800
; CURRENT APPLICATION NUMBER: US/10/033,243
; CURRENT FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 60/258,675
; PRIOR FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polynucleotide containing CG
US-10-033-243-19

Query Match 90.5%; Score 19; DB 14; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 4
US-10-176-883-41
; Sequence 41, Application US/10176883
; Publication No. US20030175731A1

; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME-I
; FILE REFERENCE: 377882002000
; CURRENT APPLICATION NUMBER: US/10/176,883
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-176-883-41

Query Match 90.5%; Score 19; DB 16; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 5
US-10-177-826-41
; Sequence 41, Application US/10177826
; Publication No. US20030199466A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME-II
; FILE REFERENCE: 377882002001
; CURRENT APPLICATION NUMBER: US/10/177,826
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-177-826-41

Query Match 90.5%; Score 19; DB 16; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 6
US-10-328-578-41
; Sequence 41, Application US/10328578
; Publication No. US20030225016A1
; GENERAL INFORMATION:

; APPLICANT: Fearon, Karen L.
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen F.
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME-III
; FILE REFERENCE: 377882002020
; CURRENT APPLICATION NUMBER: US/10/328,578
; CURRENT FILING DATE: 2003-05-16
; PRIOR FILING DATE: US 10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/375,253
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 10/177,826
; PRIOR FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-328-578-41

Query Match 90.5%; Score 19; DB 17; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 7
US-10-623-371-41
; Sequence 41, Application US/10623371
; Publication No. US20040132677A1
; GENERAL INFORMATION:
; APPLICANT: FEARON, Karen L.
; APPLICANT: DINA, Dino
; APPLICANT: TUCK, Stephen F.
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME-IV
; FILE REFERENCE: 377882002021
; CURRENT APPLICATION NUMBER: US/10/623,371
; CURRENT FILING DATE: 2003-07-18
; PRIOR FILING DATE: US 10/328,578
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 10/177,826
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-623-371-41

Query Match 90.5%; Score 19; DB 18; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19

Db 1 TCGTCGAACGTTTCGAGATG 19
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RESULT 8
US-10-739-518-41
; Sequence 41, Application US/10739518
; Publication No. US20040136948A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen L.
; TITLE OF INVENTION: BRANCHED IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882003200
; CURRENT APPLICATION NUMBER: US/10/739,518
; CURRENT FILING DATE: 2003-12-17
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/436,406
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-739-518-41

Query Match 90.5%; Score 19; DB 18; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
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Db 1 TCGTCGAACGTTTCGAGATG 19

RESULT 9
US-10-033-243-30
; Sequence 30, Application US/10033243
; Publication No. US20030049266A1
; GENERAL INFORMATION:
; APPLICANT: FEARON, Karen L.
; APPLICANT: DINA, Dino
; TITLE OF INVENTION: IMMUNOMODULATORY POLYNUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882001800
; CURRENT APPLICATION NUMBER: US/10/033,243
; CURRENT FILING DATE: 2002-04-03
; PRIOR FILING DATE: 2000-12-27
; PRIOR APPLICATION NUMBER: 60/258,675
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polynucleotide containing CG
US-10-033-243-30

Query Match 90.5%; Score 19; DB 14; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | | | |
Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 10
US-10-176-883-52
; Sequence 52, Application US/10176883
; Publication No. US2003017531A1

; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002000
; CURRENT APPLICATION NUMBER: US/10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-176-883-52

Query Match 90.5%; Score 19; DB 16; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | |
Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 11

US-10-177-826-52
; Sequence 52, Application US/10177826
; Publication No. US20030199466A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002001
; CURRENT APPLICATION NUMBER: US/10/177,826
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-177-826-52

Query Match 90.5%; Score 19; DB 16; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
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Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 12

US-10-328-578-52
; Sequence 52, Application US/10328578
; Publication No. US20030225016A1
; GENERAL INFORMATION:

; APPLICANT: Fearon, Karen L.
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen F.
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002020
; CURRENT APPLICATION NUMBER: US/10/328,578
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/375,253
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 10/177,826
; PRIOR FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-328-578-52

Query Match 90.5%; Score 19; DB 17; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
| | | | | | | | | | | | | | | | | | | |
Db 4 TCGTCGAACGTTTCGAGATG 22

RESULT 13

US-10-623-371-52
; Sequence 52, Application US/10623371
; Publication No. US20040132677A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen L.
; APPLICANT: Dina, Dino
; APPLICANT: Tuck, Stephen F.
; TITLE OF INVENTION: CHIMERIC IMMUNOMODULATORY COMPOUNDS AND
; FILE REFERENCE: 377882002021
; CURRENT APPLICATION NUMBER: US/10/623,371
; CURRENT FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 10/328,578
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 10/176,883
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 10/177,826
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,883
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/375,253
; PRIOR FILING DATE: 2002-04-23
; NUMBER OF SEQ ID NOS: 158
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic construct
US-10-623-371-52

Query Match 90.5%; Score 19; DB 18; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19

Job time : 502 secs

Db 4 TCGTCGAACGTTTCGAGATG 22
|||||

RESULT 14

US-10-739-518-52
; Sequence 52, Application US/10739518
; Publication No. US20040136948A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen L.
; TITLE OF INVENTION: BRANCHED IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882003200
; CURRENT APPLICATION NUMBER: US/10/739,518
; CURRENT FILING DATE: 2003-12-17
; PRIOR APPLICATION NUMBER: US 60/436,406
; PRIOR FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-739-518-52

Query Match 90.5%; Score 19; DB 18; Length 22;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 4 TCGTCGAACGTTTCGAGATG 22
|||||

RESULT 15

US-10-739-518-46
; Sequence 46, Application US/10739518
; Publication No. US20040136948A1
; GENERAL INFORMATION:
; APPLICANT: Fearon, Karen L.
; TITLE OF INVENTION: BRANCHED IMMUNOMODULATORY COMPOUNDS AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 377882003200
; CURRENT APPLICATION NUMBER: US/10/739,518
; CURRENT FILING DATE: 2003-12-17
; PRIOR APPLICATION NUMBER: US 60/436,406
; PRIOR FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 5
; OTHER INFORMATION: b is 5-bromocytosine
US-10-739-518-46

Query Match 86.7%; Score 18.2; DB 18; Length 19;
Best Local Similarity 94.7%; Pred. No. 15;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGAACGTTTCGAGATG 19
|||||
Db 1 TCGTCGAACGTTTCGAGATG 19
|||||

Search completed: March 30, 2005, 12:33:39

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